

21978 Protein Sequences PCT  
SEQUENCE LISTING

&lt;110&gt; INSERM

SANOFI-AVENTIS

&lt;120&gt; USE OF ANTAGONISTS TO THE CB1 RECEPTOR FOR THE MANUFACTURE OF A COMPOSITION USEFUL FOR THE TREATMENT OF HEPATIC DISEASES

&lt;130&gt; CB1

&lt;150&gt; EP04290633

&lt;151&gt; 2004-03-09

&lt;160&gt; 9

&lt;170&gt; PatentIn version 3.1

&lt;210&gt; 1

&lt;211&gt; 472

&lt;212&gt; PRT

&lt;213&gt; Human

&lt;400&gt; 1

Met	Lys	Ser	Ile	Leu	Asp	Gly	Leu	Ala	Asp	Thr	Thr	Phe	Arg	Thr	Ile
1				5					10					15	

Thr	Thr	Asp	Leu	Leu	Tyr	Val	Gly	Ser	Asn	Asp	Ile	Gln	Tyr	Glu	Asp
								25					30		

Ile	Lys	Gly	Asp	Met	Ala	Ser	Lys	Leu	Gly	Tyr	Phe	Pro	Gln	Lys	Phe
							35						40		45

Pro	Leu	Thr	Ser	Phe	Arg	Gly	Ser	Pro	Phe	Gln	Glu	Lys	Met	Thr	Ala
					50				55				60		

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Gly Asp Asn Pro Gln Leu Val Pro Ala Asp Gln Val Asn Ile Thr Glu  
65 70 75 80

Phe Tyr Asn Lys Ser Leu Ser Ser Phe Lys Glu Asn Glu Glu Asn Ile  
85 90 95

Gln Cys Gly Glu Asn Phe Met Asp Ile Glu Cys Phe Met Val Leu Asn  
100 105 110

Pro Ser Gln Gln Leu Ala Ile Ala Val Leu Ser Leu Thr Leu Gly Thr  
115 120 125

Phe Thr Val Leu Glu Asn Leu Leu Val Leu Cys Val Ile Leu His Ser  
130 135 140

Arg Ser Leu Arg Cys Arg Pro Ser Tyr His Phe Ile Gly Ser Leu Ala  
145 150 155 160

Val Ala Asp Leu Leu Gly Ser Val Ile Phe Val Tyr Ser Phe Ile Asp  
165 170 175

Phe His Val Phe His Arg Lys Asp Ser Arg Asn Val Phe Leu Phe Lys  
180 185 190

Leu Gly Gly Val Thr Ala Ser Phe Thr Ala Ser Val Gly Ser Leu Phe  
195 200 205

Leu Thr Ala Ile Asp Arg Tyr Ile Ser Ile His Arg Pro Leu Ala Tyr  
210 215 220

Lys Arg Ile Val Thr Arg Pro Lys Ala Val Val Ala Phe Cys Leu Met  
225 230 235 240

Trp Thr Ile Ala Ile Val Ile Ala Val Leu Pro Leu Leu Gly Trp Asn  
245 250 255

Cys Glu Lys Leu Gln Ser Val Cys Ser Asp Ile Phe Pro His Ile Asp  
260 265 270

Glu Thr Tyr Leu Met Phe Trp Ile Gly Val Thr Ser Val Leu Leu Leu  
275 280 285

Phe Ile Val Tyr Ala Tyr Met Tyr Ile Leu Trp Lys Ala His Ser His  
290 295 300

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Ala Val Arg Met Ile Gln Arg Gly Thr Gln Lys Ser Ile Ile Ile His  
305 310 315 320

Thr Ser Glu Asp Gly Lys Val Gln Val Thr Arg Pro Asp Gln Ala Arg  
325 330 335

Met Asp Ile Arg Leu Ala Lys Thr Leu Val Leu Ile Leu Val Val Leu  
340 345 350

Ile Ile Cys Trp Gly Pro Leu Leu Ala Ile Met Val Tyr Asp Val Phe  
355 360 365

Gly Lys Met Asn Lys Leu Ile Lys Thr Val Phe Ala Phe Cys Ser Met  
370 375 380

Leu Cys Leu Leu Asn Ser Thr Val Asn Pro Ile Ile Tyr Ala Leu Arg  
385 390 395 400

Ser Lys Asp Leu Arg His Ala Phe Arg Ser Met Phe Pro Ser Cys Glu  
405 410 415

Gly Thr Ala Gln Pro Leu Asp Asn Ser Met Gly Asp Ser Asp Cys Leu  
420 425 430

His Lys His Ala Asn Asn Ala Ala Ser Val His Arg Ala Ala Glu Ser  
435 440 445

Cys Ile Lys Ser Thr Val Lys Ile Ala Lys Val Thr Met Ser Val Ser  
450 455 460

Thr Asp Thr Ser Ala Glu Ala Leu  
465 470

<210> 2

<211> 411

<212> PRT

<213> Human

<400> 2

Met Ala Leu Gln Ile Pro Pro Ser Ala Pro Ser Pro Leu Thr Ser Cys  
1 5 10 15

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Thr Trp Ala Gln Met Thr Phe Ser Thr Lys Thr Ser Lys Glu Asn Glu  
20 25 30

Glu Asn Ile Gln Cys Gly Glu Asn Phe Met Asp Ile Glu Cys Phe Met  
35 40 45

Val Leu Asn Pro Ser Gln Gln Leu Ala Ile Ala Val Leu Ser Leu Thr  
50 55 60

Leu Gly Thr Phe Thr Val Leu Glu Asn Leu Leu Val Leu Cys Val Ile  
65 70 75 80

Leu His Ser Arg Ser Leu Arg Cys Arg Pro Ser Tyr His Phe Ile Gly  
85 90 95

Ser Leu Ala Val Ala Asp Leu Leu Gly Ser Val Ile Phe Val Tyr Ser  
100 105 110

Phe Ile Asp Phe His Val Phe His Arg Lys Asp Ser Arg Asn Val Phe  
115 120 125

Leu Phe Lys Leu Gly Gly Val Thr Ala Ser Phe Thr Ala Ser Val Gly  
130 135 140

Ser Leu Phe Leu Thr Ala Ile Asp Arg Tyr Ile Ser Ile His Arg Pro  
145 150 155 160

Leu Ala Tyr Lys Arg Ile Val Thr Arg Pro Lys Ala Val Val Ala Phe  
165 170 175

Cys Leu Met Trp Thr Ile Ala Ile Val Ile Ala Val Leu Pro Leu Leu  
180 185 190

Gly Trp Asn Cys Glu Lys Leu Gln Ser Val Cys Ser Asp Ile Phe Pro  
195 200 205

His Ile Asp Glu Thr Tyr Leu Met Phe Trp Ile Gly Val Thr Ser Val  
210 215 220

Leu Leu Leu Phe Ile Val Tyr Ala Tyr Met Tyr Ile Leu Trp Lys Ala  
225 230 235 240

His Ser His Ala Val Arg Met Ile Gln Arg Gly Thr Gln Lys Ser Ile  
245 250 255

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Ile Ile His Thr Ser Glu Asp Gly Lys Val Gln Val Thr Arg Pro Asp  
260 265 270

Gln Ala Arg Met Asp Ile Arg Leu Ala Lys Thr Leu Val Leu Ile Leu  
275 280 285

Val Val Leu Ile Ile Cys Trp Gly Pro Leu Leu Ala Ile Met Val Tyr  
290 295 300

Asp Val Phe Gly Lys Met Asn Lys Leu Ile Lys Thr Val Phe Ala Phe  
305 310 315 320

Cys Ser Met Leu Cys Leu Leu Asn Ser Thr Val Asn Pro Ile Ile Tyr  
325 330 335

Ala Leu Arg Ser Lys Asp Leu Arg His Ala Phe Arg Ser Met Phe Pro  
340 345 350

Ser Cys Glu Gly Thr Ala Gln Pro Leu Asp Asn Ser Met Gly Asp Ser  
355 360 365

Asp Cys Leu His Lys His Ala Asn Asn Ala Ala Ser Val His Arg Ala  
370 375 380

Ala Glu Ser Cys Ile Lys Ser Thr Val Lys Ile Ala Lys Val Thr Met  
385 390 395 400

Ser Val Ser Thr Asp Thr Ser Ala Glu Ala Leu  
405 410

<210> 3

<211> 20

<212> PRT

<213> Human

<400> 3

Phe Arg Thr Ile Thr Thr Asp Leu Leu Tyr Val Gly Ser Asn Asp Ile  
1 5 10 15

Gln Tyr Glu Asp  
20

## 21978 Protein Sequences PCT

&lt;210&gt; 4

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; Human

&lt;400&gt; 4

Asp Met Ala Ser Lys Leu Gly Tyr Phe Pro Gln Lys Phe Pro Leu Thr  
1 5 10 15

Ser Phe Arg Gly Ser Pro Phe  
20

&lt;210&gt; 5

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Human

&lt;400&gt; 5

Thr Glu Phe Tyr Asn Lys Ser Leu Ser Ser Phe Lys Glu Asn Glu Glu  
1 5 10 15

Asn Ile Gln Cys  
20

&lt;210&gt; 6

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Human

&lt;400&gt; 6

Arg Met Ile Gln Arg Gly Thr Gln Lys Ser Ile Ile Ile His Thr Ser  
1 5 10 15

Glu Asp Gly Lys  
20

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&lt;210&gt; 7

&lt;211&gt; 12

&lt;212&gt; PRT

&lt;213&gt; Human

&lt;400&gt; 7

Val Tyr Asp Val Phe Gly Lys Met Asn Lys Leu Ile  
1               5   10

&lt;210&gt; 8

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Human

&lt;400&gt; 8

His Lys His Ala Asn Asn Ala Ala Ser Val His Arg Ala Ala Glu Ser  
1               5   10                           15

Cys Ile Lys Ser  
20

&lt;210&gt; 9

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Human

&lt;400&gt; 9

His Lys His Ala Asn Asn Thr Ala Ser Met His Arg Ala Ala Glu Ser  
1               5   10                           15

Cys Ile Lys Ser  
20